TACTS FOR INVESTORS.

following are five analyses of the coking by Mr. Andrew S. McCreath chem- at those furnaces.

The coke made from this coul is a great suc-He rose is shown by Mr. McCreath's letter:

4.74

apparative table will show the superioity of the coke produced here over that produced ither at Connells ville or Pocahontas.

a pearer a perfect coke than any yet made. sidered that this immense hickness; that it extends over an area of over 1,000 scres; that it is located up above the levof the valleys; that it can be drained without the use of machinery; that so much of the exsense which must be incurred in other localiies in the manufacture of coke are avoided, and that ample transportation will soon be atorded, it will be seen what an immense advantage these fields have over any yet discovered

the United States or elsewhere. No. 1 below is a splint coal 4 feet thick, and o. 2 a cannel coal, both by McCreath:

The analyses below are of the following: No 2, and 3 a red fossil ore two miles from Big me Gap, No. 1 a limonite or brown ore six

0.122 24.52 0.135 The following are three samples of double Bessemer ores tributary to Big Stone Gap, and is a matter of fact will be used by the Appachian furnace, and is found elsewhere only in

61.10 46.28 And this by another chemist of a brown hematite, (dried at 212 deg. Farenheit) six miles

Besides these there are also on railroads running here another brown ore carrying from 47 to 60 per cent of iron, and .019 of phosphorus: manganiferous iron ores, and in all probability large deposits of manganese; a black imminite with from 50 to 55 per cent of iron (well suited for the pneumatic Basic process);

sepecular or red hematite (Bessemer) with 55 to 65 per cent of iron, while of the great Cranberry magnetic ore Prof. Proceer, in his

report, says: "Extending northeast and southwest through the western counties of North Carolina are large deposits of the purest magnetic iron ores known in this country save in the Lake Superior region. These ores, from a number of samples averaged by myself and officers of the Tenth Census and others, analyze from 45 per cent to 66 per cent of iron, and are, in Mitchell and Ashe counties, North Carolina, remarkably free from phosphorous and sulphur. Recent developments along a line of thirty miles in extent prove the excessive nature of these deposits. The only point where these ores have as yet been reached by a railway is at Cramberry mine in Mitchell county, North Carolina. A few years ago the great mass of ore now uncovered at this point was hid by a thick covering of soil and decomposed gneiss, save only a few surface pits from which a small forge was supplied with ore. Within the past few years the face of the hill has been uncovered, revealing an enormous mass of very pure magnetite to a beigth of 300 feet above the railway track. The engineer in charge at the mines assured me that from diamond-drill tests and the uncovored mass, he had here piled up above the railway track over 20,000,000 tons of ore to be mined by simply quarrying in open cut; and I doubt if an ore of like excellence can be delivered on cars at less cost elsewhere in America. A furnace test was recently made on Virginia coke and the run of mine of Cranberry ore, and a pig produced containing .03 per cent of phosphorus; and from practical furnace tests and the analyses of cre from many openings, it is demonstrated that the entire district contains in abundance an ore suited to the manufacture of Bessemer steel. This ore is nearer to coke (at Big Stone Gap) than is any other Bessemer steel ore known to me in America. From the Bessemer ores of the lake region, the source of nearly all the steel now made in this country, to the nearest coke is about 800 miles; from the Bessemer ores of western North Carolina to the coke at Big Stone Gap it is 100 miles, and between these two extremes are to be had the ratious ores above described. Beyond the Blue Ridge in the Carolinas, are large deposits of high-grade ores. A very great development in the manufacture of iron and steel will follow up the completion of the roads connecting the soking coals and ores, in the ragion under dissoking coals and ores, in the region under dis-

southeastern Kentucky to western North Carolina, estimates the cost of making a ton of pig iron at Big Stene Gap at \$7.86; and thinks that Bessemer steel can be made at the same place at as low cost as in England. This estimate S. A. & O. R. R. TIME-TABLE. of Big Stone Gap, or Thirty Shares in the Intermediate of the Intermediate in the Intermediate. at as low cost as in England. This estimate agrees with estimates made by practical iron and steel manufacturers from Pennsylvania who have made large investments at Big Stone Gap for the purpose of development.

Furnaces and steel plants at Big Stone Gap
will have, in addition to the local supply of

coal, and pure limestone, the advantage of a location on competing lines of railway, and the advantage of a location on a great system that can deliver the products direct to all of the great markets in the Ohio and Mississippi Vallevs. The ores from East Tennessee, Southwest Virginia, and the Carolinas can be shipped with advantage to these furnaces, as it is arrying the ores in the direction of the martets, and these ores will give return freight for the cars of coal and coke shipped from Big Stone Gap to those States."

FACTS FOR MANUFACTURERS. The Virginia Coal & Iron Company agrees to furnish coke at the following prices:

At the ovena at Big Stone Gap, ... \$2.00 It is likely these prices will be reduced under competition, but take them as they are and compare them with prices at Connellaville.

Cost of coke at Connellsville December, 1856; Furnace coke, \$2.15 per ton. Foundry coke, \$2.45. Freight rates from Connells-Cost at these points Furnace. Foundry \$2.85 \$8.15 5.50 3.80 3.85 4.15 4.50 4.80 Mahoning Valley, O. 1.35 Cleveland, Detroit, .... Cincinnali, 4.80 5.35 4.50 5.50

4.32 Total shipments from Connellsville for weekonding November 22, 1890, 6,977 cars, distributed as follow a To Pittsburgh, 1,560 cars; to the West, 4,100 cars; to the East, 1,317 cars. Bessemer ore is costing at Pittsburg \$7.56

per ton, and non-Bessemer ore costs at Pitts-burg from \$4.00 to \$6.00 per ton. Non-Bessemer ore will cost at Big Stone Gap from \$1.25 to \$2.50 per ton, and the Bessemer ore from \$3.00 to \$3.50 per ton.

Limestone will cost at least twice as much at Pittsburg as at Big Stone Gap. It is said that 700 tons of Pocahontas coke passes west through Bristol daily for furnaces Having formed a co-partnership, offer their profes-sional services to the people of Big Stone Gap and vicinity. in the Alabama and Chattanooga districts. this that of averaged samples of the his coke will cost from \$3.75 to \$4.50 per ton at those furnesses

These facts show the smaller cost of coke and iron ore at Big Stone Gap and require no comment. Coke can be delivered at the ovens here much cheaper than these figures indicate, and still afford a large profit to the maker.

Office over S. L. Whitehead & Company's Drug Store OPINION OF TWO ENGLISH EXPERTS.

Mr. John W. Darby, of Wexham, Eng., and Mr. F. Monks, of Warrington, Eng., members of the British Iron & Steel Institute, recently visited Big Stone Gap. Mr. Darby is a young man, but has already reached a prominent position among the iron and steel producers of England. He inherits his aptness for these industries from ancestors who have been prominent in them for a century. His grandfather was the first to make iron from uncoked coal, and his own plant, located near Chester, was the first to use successfully the basic process for making steel. Mr. Monks is one of the oldest and best known of the practical iron and coke men of England.

"The very things I wanted to see are here. I did not care to see the manufactories in operation, for we have those at home as numerous and as nearly perfect as one could wish to see although I must say that I have been greatly surprised and pleased at the great concerns we saw in the North. Their equipments are not cites the facts and the intelligent reader may so complete nor their methods so economical as relusions. The following ours in England, but they are rapidly approaching it. What those of us who mean isiness wished to see in America is just what I have seen to-day at Big Stone Gap; as fine coke as I have ever seen in England, with iron ores only two miles away, and limestone between, together with water power and railroads This is a combination that is bound to make you great here. I have never seen it equaled Isewhere. Your coke is the best I have seen in America. The brown ores we inspected today are admirably adapted to the basic process. Of course, your proximity to the magnetic ores at Cranberry is a great eard in your favor, but you will not need that to make the possibilities of this point simply incalculable. We have been over a large portion of the Southern mineral belt, and I regard this as the best point we have seen for the manufacturing of basic 94.04 4.74 .588 steel, owing to the quality and quantity of This coke besides having been analyzed, has your brown ores and their proximity to this walter K. Addison. This core besides have as to strength and por- coke. I have enjoyed my day here greatly, ben theroughly tested as to strength and por-benty, and is pronounced by capable experts to buty, and is pronounced by capable experts to Mr. Monks spoke in the same strain, saying

he had been a practical producer of coke and iron for forty years, and that he had never seen better coke; and the iron ore, both brown and red were time. He thought the best card for the future of Big Stone Gap in the iron industry was the advantage it had over any other place he had seen for the production of steel by

Prof. Procter in his report says of the timber: "About 90 per cent of the area included in the Appalachian coal-field in Southwest Virginia, West Virginia, and Southeast Kentucky, is covered with forest of valuable hardwoodsoak, yellow poplar, hickory, etc. The Black L. TURNER MAURY, Mountains, immediately north of Big Stone Gap, are heavily timbered from base to summit with as magnificent forests as I have ever

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Marble Quarry...
Estiliville.... \*4:16 \*9:16 4:24 9:24 \*4:14 \*4:08 3:59 3:49 3:31 4 :24 9 :24 9 :24 4 :31 9 :34 4 :45 9 :45 4 :53 9 :53 5 :11 10 :17 5 :35 10 :35 W 6 00 11 :00 Ar ... . Moccasin Gap... . Nottingham.... Mace's Springs.
Mendota
Abram's Falls.
Benham's.
Walker's Mountain.
Bristol \*3:26 \*9:11 8:09 8:54 \*3:02 \*8:47 2:45 8:30 p.m. | a.m. | \*Trains stop only on signa .

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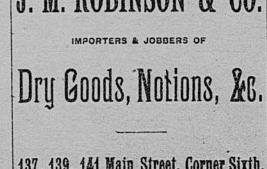
L. & N. R. R. TIME-TABLE.

Cumberl'nd Gap

.Wheelers ...

Ar. 7:15

Ar. 9:02 p. 8:58 Lv. 8:55



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